

What is claimed is:

- 1 1. A socket tool for connection and communication of application layer software,
2 being embodied in form of coded codes, which are executed in a computer for
3 its inside application layer software to call to connect and communicate with that
4 of another computer under regulations of the Transmission Control Protocol
5 (TCP), wherein the socket tool comprises a set of socket control codes for TCP
6 network connection based on the Transmission Control Protocol.
- 1 2. The socket tool according to claim 1, further comprising a set of
2 value-incremental codes for dealing with data to be transmitted by the
3 application layer software.
- 1 3. The socket tool according to claim 1, wherein the set of socket control codes
2 comprises at least a "SAccept" code, a "SClose" code, a "SConnect" code, a
3 "SGetData" code, a "SListen" code, a "SSendData" code, a "SGetFileName"
4 code, a "SSendFile" code, a "SConnectionRequest" code, a "SDataArrival" code,
5 a "SError" code, a "SSendComplete" code, a "SFileArrival" code, and a
6 "ConectionTimeOut" code.
- 1 4. The socket tool according to claim 2, wherein the set of value-incremental codes
2 includes at least an encryption code and a decryption code.
- 1 5. The socket tool according to claim 2, wherein the set of value-incremental codes
2 includes at least a compression code and a decompression code.
- 1 6. The socket tool according to claim 1, wherein the application layer software is a
2 SQL database software.
- 1 7. The socket tool according to claim 1, wherein the application layer software is
2 an application software for downloading files.
- 1 8. The socket tool according to claim 7, wherein a downloaded file is a MP3 song

2 file, a GIF format picture file, a JPG format picture file, or a moving picture
3 format file.

1 9. The socket tool according to claim 1, wherein the application layer software is a
2 chat application software.

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